

REPORTS ON THE FLORA OF THE BOSTON  
DISTRICT,—XVI.

THE records on which the reports on the *Gramineae* are based have been unusually full, except in the case of some of the more recently described species. Over 3500 of these records are already on file with the Committee. These represent the *Gramineae* of the Gray Herbarium, the Herbaria of the New England Botanical Club, Boston Society of Natural History, Peabody Academy of Science at Salem, Wellesley College and Yale University (Dr. C. W. Swan's collection), and the personal herbaria of J. R. Churchill, Walter Deane, F. F. Forbes, F. W. Grigg, F. Tracy Hubbard, C. H. Knowlton, John Murdoch, Jr., and R. A. Ware.

The collections from the Peabody Academy at Salem and from the Swan Herbarium at Yale were sent to the Gray Herbarium, where they were diligently verified. Prof. M. L. Fernald and Mr. F. Tracy Hubbard have been of special service in this work. The ranges given are based on actual specimens.

In studying *Panicum* constant use has been made of the Hitchcock & Chase monograph, Contrib. U. S. Nat. Herb. xv. 1910.

GRAMINEAE.

ZEA.

[Z. MAYS L. Occasional on waste land and along railways. Probably does not reproduce itself wild.]

ANDROPOGON.

**A. furcatus** Muhl. Dry open ground, frequent throughout.

**A. glomeratus** (Walt.) BSP. Moist field, Duxbury (C. H. Knowlton, Sept. 10, 1911); Hingham, according to T. T. Bouvé, The Botany of Hingham, 1893, as *A. macrourus* Michx.

**A. scoparius** Michx. Dry sandy and rocky soil, very common throughout. Probably our most abundant grass.

**A. virginicus** Muhl. Dry ground, Blue Hill, Milton (E. & C. E.

*Faxon*, Oct. 7, 1878; *E. Faxon & J. R. Churchill*, Oct. 17, 1884; *W. H. Manning*, Aug. 15, 1894); Norwood (*E. F. Williams*, Sept. 15, 1895); Waltham (*S. E. French*, Sept. 10, 1888).

#### TRAGUS.

**T. RACEMOSUS** Scop. South Boston flats (*C. E. Perkins*, July 20, 1882, and Aug. 20, 1882). A fugitive plant, native in middle and southern Europe, the Canary Islands, Afghanistan and India.

#### SORGHASTRUM.

**S. nutans** (L.) Nash. Dry sandy soil, frequent throughout.

#### SORGHUM.

**S. HALEPENSE** (L.) Pers. South Boston (*C. E. Perkins*, Sept. 1 and 27, 1880); dump, Watertown (*R. Hoffmann*, Sept. 18, 1899).

**S. VULGARE** Pers. Dumps and made land; Lawrence, Brookline, Boston and South Boston, not collected recently. Probably seeded from corn-brooms.

#### DIGITARIA.

**D. filiformis** (L.) Koeler. Dry sterile soil; frequent except in Essex County, where it is reported only from Andover.

**D. HUMIFUSA** Pers. Dry soil; frequent from Hingham and Quincy northward, probably throughout.

**D. SANGUINALIS** (L.) Scop. Waste and cultivated ground, a very common weed throughout.

#### PASPALUM.

**P. Muhlenbergii** Nash. Fields and pastures, very common throughout.

**P. psammophilum** Nash. Dry sand, Halifax (*C. H. Knowlton & W. P. Rich*, July 15, 1906); Duxbury (*C. H. Knowlton*, Sept. 10, 1911). See RHODORA xiv. 174, 1912.

## PANICUM.

**P. Addisonii** Nash, "Andover, *Blake* in 1882"; see Hitchcock & Chase, Contrib. U. S. Nat. Herb. xv. 244, 1910.

**P. agrostoides** Spreng. Low open ground, frequent.

**P. Ashei** Pearson. Rocky woods, Melrose (*W. P. Rich*, June 28, 1894, July 4, 1894, June 16, 1895).

**P. barbulatorum** Michx. Dry sandy soil; Malden (*R. Frohock*, 1879); Mattapan, Dorchester (*J. R. Churchill*, June 21, 1890); Sherborn (*M. L. Loomis*, no. 1007, June 14, 1912); Hanson (*J. A. Cushman*, no. 2925, June 5, 1908).

**P. boreale** Nash. Moist soil, occasional in northern half of district, also at Sharon.

**P. Boscii** Poir. Rocky woods, Horn Pond Hill, Woburn (*A. S. Pease*, no. 11,364, July 8, 1908); Dorchester (*J. R. Churchill*, July 1, 1882); Natick (*C. H. Knowlton*, Sept. 4, 1898).

**P. calliphyllum** Ashe. Medford (*C. E. Perkins*, Aug. 3, 1881). The type collection near Ithaca, N. Y., and a collection at Painesville, O. are the only others known. See Hitchcock & Chase, Contrib. U. S. Nat. Herb. xv. 178, 1910.

**P. capillare** L. Gardens, shores and waste land, a very common weed throughout.

**P. clandestinum** L. Dry or moist soil, often in thickets or along streams, frequent.

**P. Clutei** Nash. (*P. mattamuskeetense* Ashe of Gray's Manual, 7th ed., 1908; see Hitchcock & Chase, Contrib. U. S. Nat. Herb. xv. 188, 1910). Framingham (*E. C. Smith*, June 21, 1892).

[*P. columbianum* Scribn. In RHODORA iii. 126, 1901, this species is cited from Nantasket Beach, Massachusetts, collected by Dr. Ezra Brainerd, June 11, 1896; but this specimen has been examined by Hitchcock & Chase who pronounce it to be *P. tsugetorum* Nash, the hairy form called by them "*P. lanuginosum siccanum*" in Contrib. U. S. Nat. Herb. xv. 245, 1910. This variety was published by them in RHODORA, viii. 207, 1906.]

**P. commutatum** Schultes. Dry bank in woods, Wellesley (*W. P. Rich*, June 14, 1899; see Hitchcock & Chase, Contrib. U. S. Nat. Herb. xv. 306, 1910).

**P. dichotomiflorum** Michx. Wet shores, cultivated and waste land, frequent.

**P. dichotomum** L. Woods, usually in dry soil, common throughout.

**P. heterophyllum** Bosc. (*P. columbianum* Scribn; see Hubbard, RHODORA xiv. 171-2, 1912). Dry sandy soil, sometimes in rich open woods; occasional from Holbrook, Canton, Milton, Westwood, Newton, Wellesley and Framingham northeastward.

**P. heterophyllum** Bosc, var. **thinium** (Hitche. & Chase) Hubbard (*P. columbianum* Scribn., var. *thinium* Hitche. & Chase; see Hubbard, RHODORA xiv. 172, 1912). Winchester (*C. E. Perkins*, Sept. 1, 1882); sandy hillside, Manchester (*F. T. Hubbard*, Oct. 1, 1912).

**P. huachucae** Ashe. Dry soil, eight stations in central part of district.

**P. huachucae** Ashe, var. **fasciculatum** (Torr.) Hubbard (var. *silvicola* Hitche. & Chase; see Hubbard, RHODORA, xiv. 171, 1912). In moister soil than the typical form, often in woods; common from North Scituate, Canton and Norwood northward, probably throughout.

**P. implicatum** Scribn. Dry and moist soil, common.

**P. languidum** Hitche. & Chase. North side of Prospect Hill on new road, Waltham (*E. F. Williams*, Oct. 6, 1895). Mr. F. Tracy Hubbard published in RHODORA xiv. 37, 1912, *P. languidum*, no. 205, from West Gloucester, specimens having been submitted to Mrs. Chase at Washington. Since then Mrs. Chase has decided that the plant is *P. tennesseense* Ashe.

**P. latifolium** L. Sandy and rocky soil, usually in open woods; frequent in northern and central portions, apparently rare southward.

**P. Lindheimeri** Nash. Dry soil, rare or local; Manchester, South Boston, West Roxbury, Canton Junction, Wellesley, Framingham.

**P. linearifolium** Scribn. Dry soil, mostly in woods; occasional, especially in central section.

**P. lucidum** Ashe. Rich woods, rare; Manchester, Melrose, Quincy, Framingham.

**P. macrocarpon** Torr. (*P. Scribnerianum* Nash; see Hubbard, RHODORA xiv. 184, 1912). Dry sand and gravel; common in most of the district, but not reported from the extreme south.

[*P. mattamuskeetense* Ashe. The plant reported under this name in RHODORA iii. 114, 1901, proves to be *P. commutatum* Schultes according to Mrs. Chase in litt.]

**P. meridionale** Ashe. Rich open woods; Beverly Farms, one

specimen (*F. T. Hubbard*, no. 475a, Sept. 29, 1912); near Silver Lake, Wilmington (*G. G. Kennedy*, June 11, 1899); Wellesley, no data, specimen in Herb. Wellesley College;<sup>1</sup> top of Blue Hill, Milton (*G. G. Kennedy*, July 10, 1899); woods by Purgatory Swamp, Norwood (*F. F. Forbes*, June 27, 1903).

**P. microcarpon** Muhl. Blue Hills (*W. H. Manning*, Aug. 11, 1894); "The Pines," Milton (*G. G. Kennedy*, Aug. 23, 1894); Milton, woods near Crossman's (*J. R. Churchill*, July 4, 1910); Milton (*H. H. Bartlett*, no. 844; see Hitchcock & Chase, *Contrib. U. S. Nat. Herb.* xv. 182, 1910); Blue Hills, West Quincy (*J. R. Churchill*, July 11, 1891); Wellesley (*W. P. Rich*, June 14, 1899).

**P. MILIACEUM** L. Waste land, occasional.

**P. oligosanthos** Schultes. Rocky soil, reasonably common, Waverly, Belmont (*F. T. Hubbard*, Oct. 13, 1912). An extension of range northward from New Jersey.

**P. oricola** Hitchc. & Chase. Sand dunes, Ipswich (*K. M. Wiegand*, June 25, 1908; *F. T. Hubbard*, Oct. 5, 1911; *M. L. Fernald*, Oct. 15, 1911); Scituate (*F. F. Forbes*, Aug. 15, 1909).

**P. philadelphicum** Bernh. Muddy and sandy pond shores, rare; Foster's and Long Ponds, Andover; Chadwick's Pond, W. Boxford; Johnson's Pond, Groveland; Winter Pond, Winchester.

**P. sphaerocarpon** Ell. Dry sandy and gravelly woods and fields, frequent.

**P. spretum** Schultes. Swamps and marshes, common.

**P. strictum** Pursh. (*P. depauperatum* Muhl.; see Hubbard, *RHODORA* xiv. 169, 1912). Dry sandy and gravelly soil, common throughout.

**P. subvillosum** Ashe. Dry soil, Gloucester, Ipswich, Wilmington, Malden, Woburn, Natick.

**P. tennesseeense** Ashe. Woods and fields, usually in coarse soil; Gloucester, Manchester, Wenham, Winchester, Cambridge, Boston, Framingham, Milton, Scituate, Sharon, Stoughton.

**P. TEXANUM** Buckl. Cotton waste from mills, Malden (*F. S. Collins & C. W. Swan*, Sept. 14-15, 1888). A fugitive weed, native in Texas and northern Mexico.

**P. tsugetorum** Nash. Dry sandy fields and woods, frequent.

<sup>1</sup> The specimens reported in *RHODORA* xi. 82, 1909, from Wellesley prove to be *P. tsugetorum*; those reported from Ipswich, in the same notice, prove to be *P. tsugetorum* and *P. oricola*.

**P. umbrosum** Le Conte. (*P. Ashei* Pearson; see Hubbard, RHODORA xiv. 173, 1912). Dry rocky woods; Manchester, Lynn, Melrose, Malden, West Roxbury, Weston, Blue Hills, West Quincy, Walpole.

**P. villosissimum** Nash. Parker Street, Boston (*C. W. Swan*, June 19, 1885); Framingham (*E. C. Smith*, June 29, 1898).

**P. virgatum** L. Meadows and edges of marshes along the coast, reaching inland to Boxford, Concord and Bridgewater.

**P. virgatum** L., var. **cubense** Griseb. (var. *obtusum* Wood of Gray's Manual, 7th ed., 1908; see Hitchcock & Chase, Contrib. U. S. Nat. Herb. xv. 92, 1910). Occasional near the coast.

**P. Wernerii** Scribn. Dry soil, Winchester, Wellesley, Dover, Natick, Sherborn, Westwood, Walpole, Holbrook, Norwell.

**P. xanthophysum** Gray. Gravel pit, Lowell Junction, Andover (*A. S. Pease*, Aug. 7, 1903); railway spur, Wellesley (*K. M. Wiegand*, July 24, 1912); Framingham, not uncommon (*E. C. Smith* in RHODORA i. 98, 1899).

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## A NORTHERN VARIETY OF ERIGERON RAMOSUS.

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FOR several years botanists collecting in the northern United States and Canada have been puzzled by a plant which seemed to be near *Erigeron ramosus*, as known farther south, but which in its sparser and more divergent pubescence often seemed referable to *E. annuus*. In studying the plants of western Newfoundland it was found that there the only *Erigeron* of this group had these transitional characters, and in the absence of *E. annuus* from the island obviously could not be considered a hybrid between that species and *E. ramosus*. A recent study of all available material shows that this tendency of *E. ramosus*, with the foliage greener than in the ordinary plant and with the stem